



MIAMI-DADE COUNTY
DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Luxbau, LCC
2400 Centre park W. Drive, Suite 150
West Palm Beach, FL 33409

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "Slim European" Outswing Wood Doors

APPROVAL DOCUMENT: Drawing No **12SLIMWP**, titled "12 FT Wood Slim European Impact Outswing Opaque Panel French Doors" Sheets 1 through 7 of 7, dated APR 23, 2012, prepared by manufacturer, signed and sealed by Scott Wolters, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large & Small Missile Impact Resistant

Limitations:

1. Lower design of entire assembly shall control, when doors w/ Horizontal mullion (item #14) are mulled with Fixed Windows (Max 74-5/8"H X 74-13/16" W, under separate approval).
2. Clip mount horizontal mullion end require min six (6) clip brackets (item #12) and require two anchors per clip, the installation into concrete and CMU min spacing of 1-1/2" (farthest diagonal) shall be used.

LABELING: Each unit shall bear a permanent label with manufacturer's name or logo, **West Palm Beach, Florida**, series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises & renews NOA # 06-0926.09** and consists of this page 1 and evidence pages E-1 , as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No 12-0110.01
Expiration Date: January 11, 2017
Approval Date: May 17, 2012
Page 1

5/17/12

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (transferred from file #06-0926.09)
2. Drawing No **12SLIMWP**, titled "12 FT Wood Slim European Impact Outswing Opaque Panel French Doors" Sheets 1 through 7 of 7, dated APR 23, 2012, prepared by manufacturer, signed and sealed by Scott Wolters, P.E.

B. TESTS (Test reports transferred from file # 06-0926.09)

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94.
3) Water Resistance Test, per FBC, TAS 202-94.
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94

Along with marked-up drawings and installation diagram of Wooden Slim European Door System, prepared by Hurricane Test Laboratory, LLC Test Report No. **HTL-0271-0406-05**, dated 09/30/05, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor verification calculations complying w/ FBC-2010 dated 02/16/12, 03/30/12 and last revised on APR 23, 2012, prepared by Wolters Engineering Inc., signed and sealed by Scott Wolters, P.E.

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

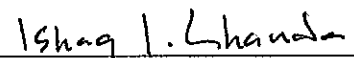
1. None.

F. STATEMENTS

1. Stateman letter of conformance to FBC 2010, dated 02-16-12, prepared by Wolters Engineering, signed and sealed by Scott Wolters, P. E.
2. Statement letters of compliance, part of the above test reports.
3. Statement letter dated JAN 03, 2012, Issued by LUXBAUM, LLC for product renewal with no change, signed by Laszlo Wagner, president.
4. Distribution agreement between PT. Landfall Bali Utama, Indonesia and Luxbau LLC, West Palm Beach, Florida dated 04/13/12, signed by Putu Udayana, General Manager and Laszlo Wagner, President on behalf of respective companies.

G. OTHER

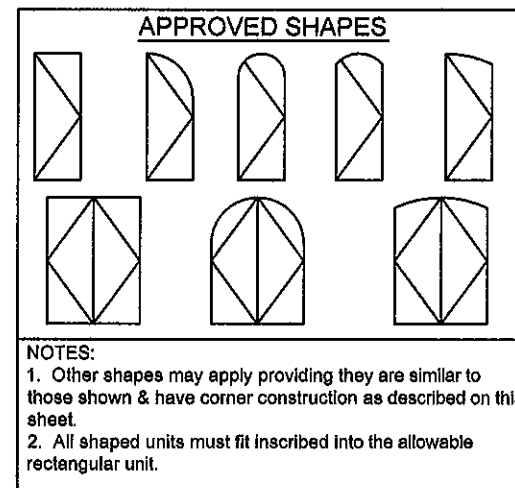
1. This NOA **revises & renews** NOA # **06-0926.09**, expired on January 11, 2012.
2. Test proposal dated 01/28/04 approved by BCCO.
3. Manufacturing & glazing locations attachment by LUXBAUM, LLC, part of NOA application.



Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0110.01
Expiration Date: January 11, 2017
Approval Date: May 17, 2012

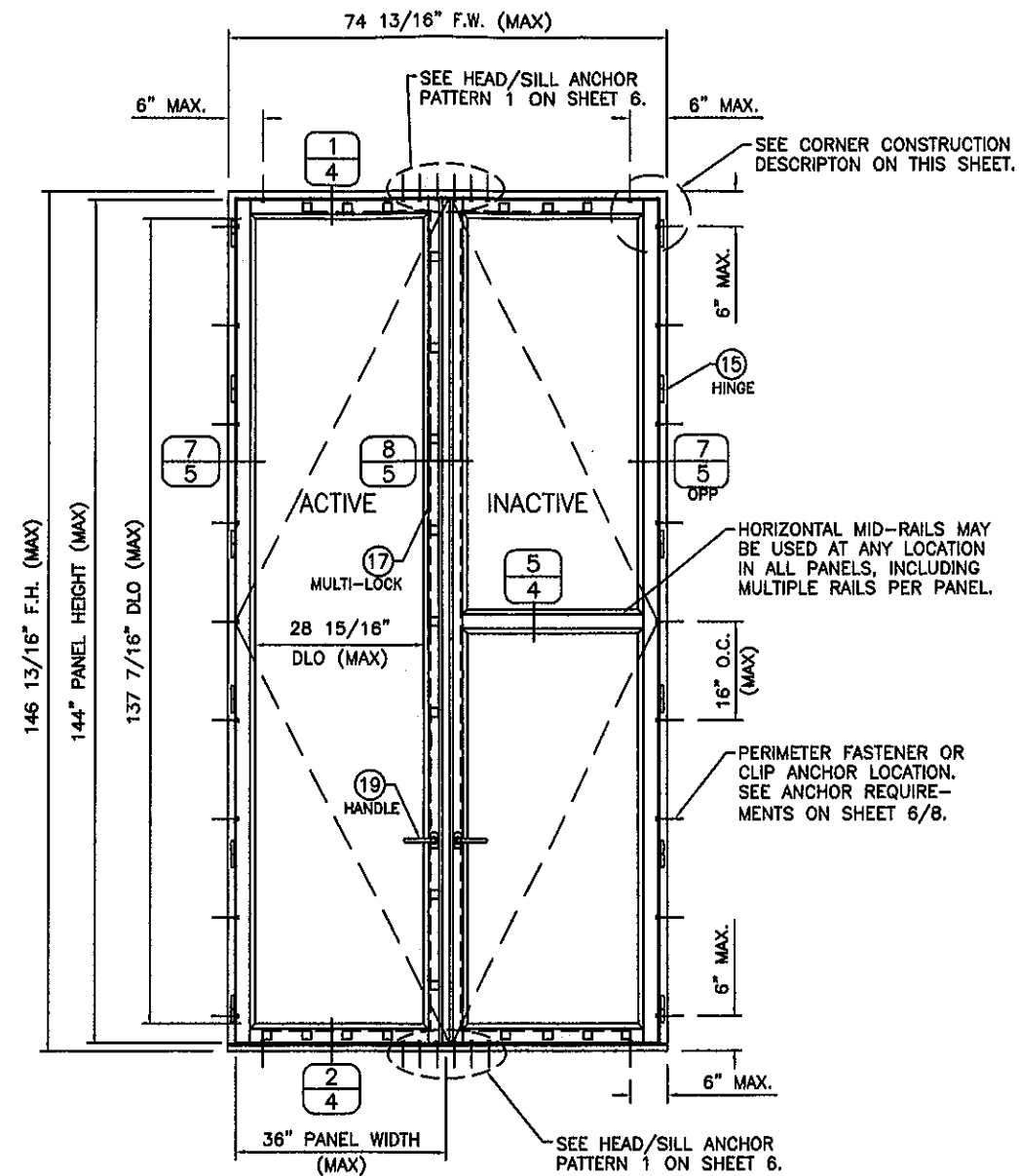
GENERAL NOTES:

1. THIS APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF IMPACT RESISTANT OUTSWING MAHOGANY DOORS WITH OR WITHOUT TRANSOMS (SEE SEPARATE APPROVAL FOR FIXED WINDOW LITES). ANY APPROVED SHAPE DIRECT SET MAY BE USED UP TO 74 3/16" x 74 5/8".
2. ALLOWABLE DESIGN PRESSURE: +65/-70 PSF
3. ALL RAISED PANELS AND/OR GLAZING AS SHOWN IN GLAZING DETAILS ON SHEET 4, AND ALL HARDWARE TYPES IN THE IN THE HARDWARE NOTES BELOW MAY BE USED IN ANY DOOR CONFIGURATION.
5. THESE DOORS HAVE BEEN DESIGNED AND TESTED TO TAS 201, 202, AND 203 PROTOCOLS IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE (FBC) INCLUDING THE HVHZ PROVISIONS.
6. THIS PRODUCT AS SHOWN HEREIN IS LARGE AND SMALL MISSILE IMPACT RATED, SHUTTERS ARE NOT REQUIRED.
7. WOOD OR MASONRY OPENINGS, BUCKS, AND BUCK FASTENERS, BY OTHERS, SHALL BE PROPERLY DESIGNED AND INSTALLED TO TRANSFER LOADS TO THE STRUCTURE.
8. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS INDICATED IN THIS APPROVAL. ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO.
9. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS.
10. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23.
11. A WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR THE ANALYSIS OF WOOD SCREWS ONLY.
12. THE MERBAU DOORS LISTED IN THIS APPROVAL ARE CONSTRUCTED OF A NATURALLY DURABLE SPECIES IN COMPLIANCE WITH FBC SECT. 2326.2.1. OTHER NATURALLY DURABLE WOOD SPECIES OF EQUAL OR GREATER STRENGTH MAY BE SUBSTITUTED FOR ALL WOOD COMPONENTS.
13. MEMBERS NOTCHED AS NEEDED TO FIT HARDWARE.

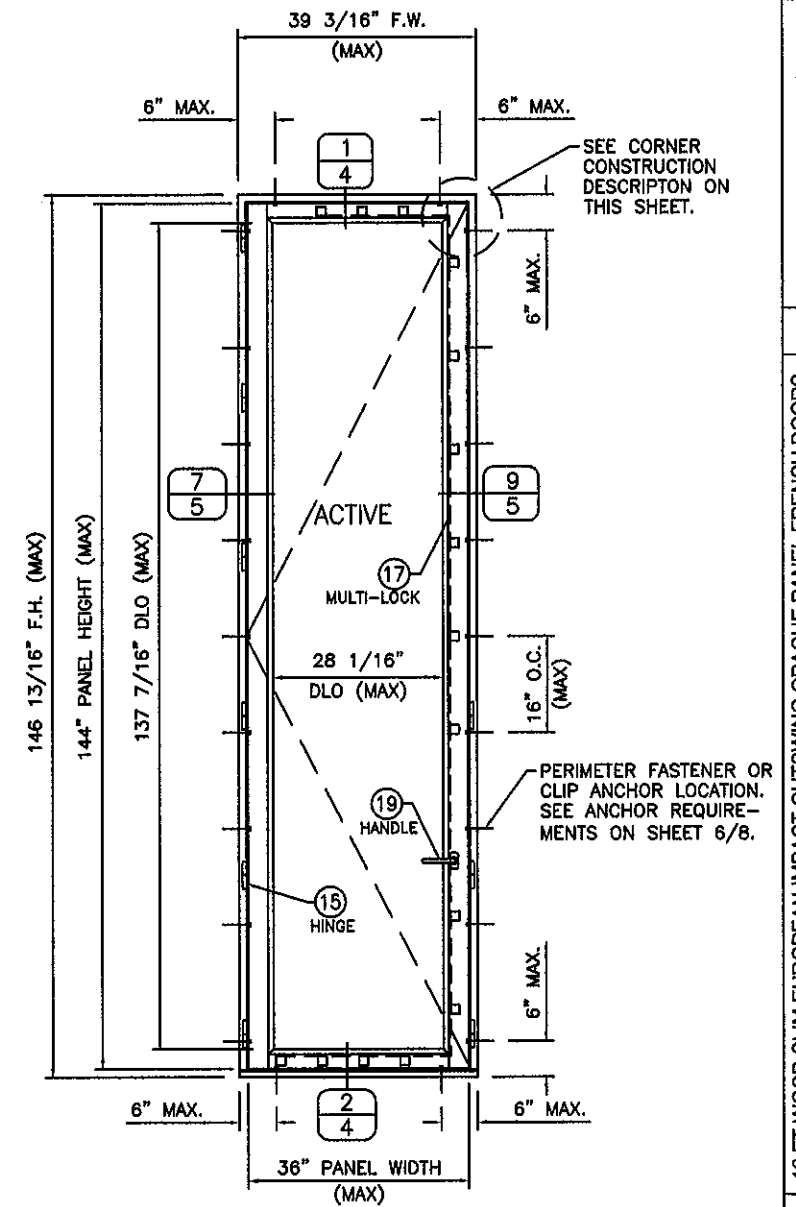


HARDWARE NOTES:

- HINGES - (#15) G-U HARDWARE 5020-SM OR (#16) SIMONSWERK BAKA C2-20WF, LOCATED 6" (MAX) FROM CORNERS OR SPRINGLINE, AND 26.4" O.C. (MAX).
- LOCKS - (#17) SIEGENIA NO. 3/4M5 MULTI-POINT LOCKS WITH LOCKING POINTS AT THE FOLLOWING LOCATIONS:
- HEAD - (2) LOCKING POINTS FOR PANEL WIDTHS < 33", (3) LOCKING POINTS FOR PANEL WIDTHS UP TO 36".
 - SILL - (3) LOCKING POINTS FOR PANEL WIDTHS < 33", (4) LOCKING POINTS FOR PANEL WIDTHS UP TO 36".
 - JAMBS - (6) LOCKING POINTS FOR PANEL HEIGHTS < 108", (7) LOCKING POINTS FOR PANEL HEIGHTS < 126", (8) LOCKING POINTS FOR PANEL HEIGHTS UP TO 144".



**DOUBLE RECTANGULAR DOOR
(EXTERIOR VIEW)**



**SINGLE RECTANGULAR DOOR
(EXTERIOR VIEW)**

DESIGN PRESSURE
+65/-70 PSF

CORNER CONSTRUCTION

JAMB & SILL CORNERS: VERTICAL JAMB ENDS ARE COPED AND BUTTED TO HORIZONTAL JAMBS WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (3) 1/2" DIA. x 3 5/16" LONG MERBAU WOOD DOWELS.

PANEL CORNERS: HORIZONTAL SASH ENDS ARE COPED AND BUTTED TO VERTICAL SASH PROFILES WITH JOINT FULLY GLUED WITH WOOD GLUE AND DOWELED WITH (4) 1/2" DIA. x 3 7/16" AND (3) 5/8" DIA. x 3 1/4" MERBAU WOOD DOWELS.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0110-01
Expiration Date 3/31/2017
Ishaan I. Chandra

DATE		REVISION DESCRIPTION		NO.	
4/20/12					

12 FT WOOD SLIM EUROPEAN IMPACT OUTSWING OPAQUE PANEL FRENCH DOORS

LUXBAUM, LLC
WINDOWS + DOORS
2400 CENTREPARK WEST DR, SUITE 150
Ph: (561) 684-1500

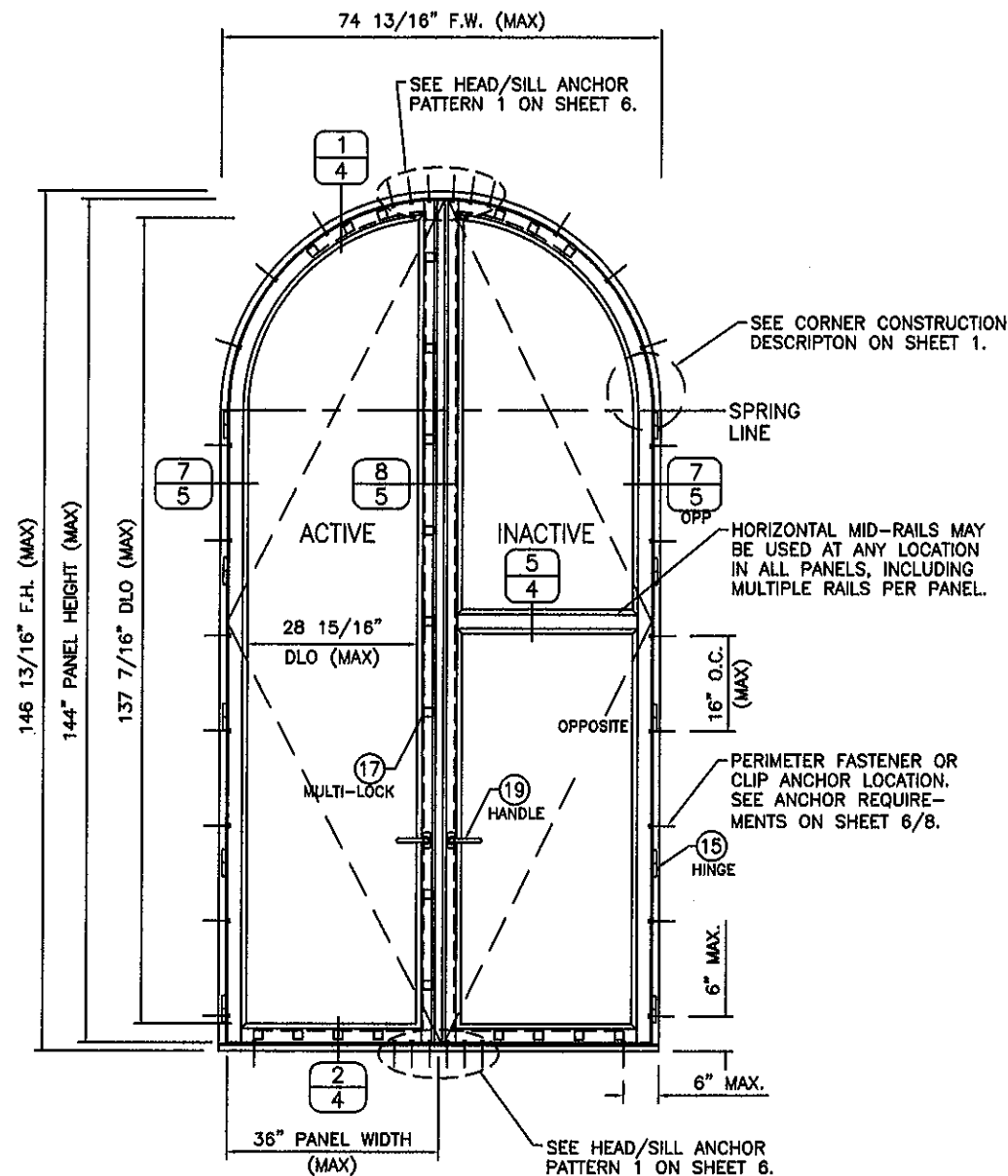
APR 23 2012

SCOTT WOLTERS
FL PE# 62354

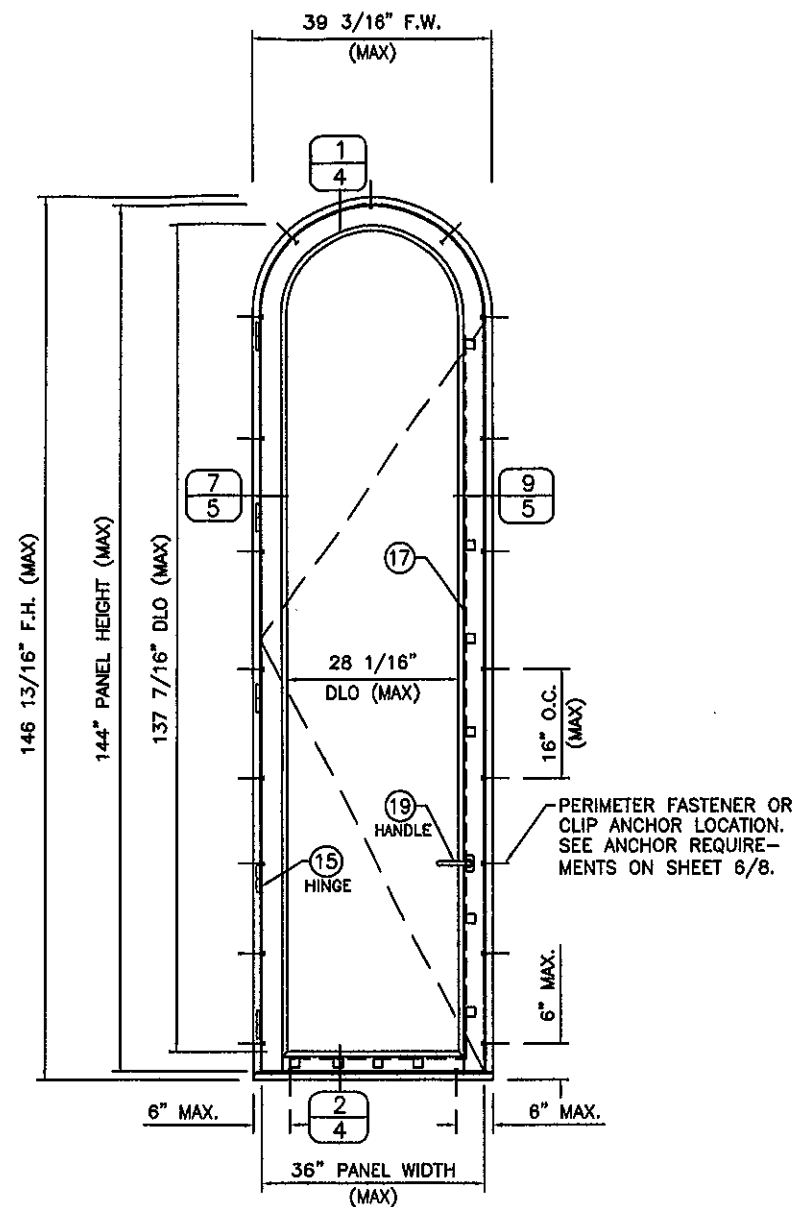
WOLTERS ENGINEERING
(CO.# 27194)
1271 GRANT STREET
HOLLYWOOD, FL 33019

DRAWING NO.
12SLIMWP

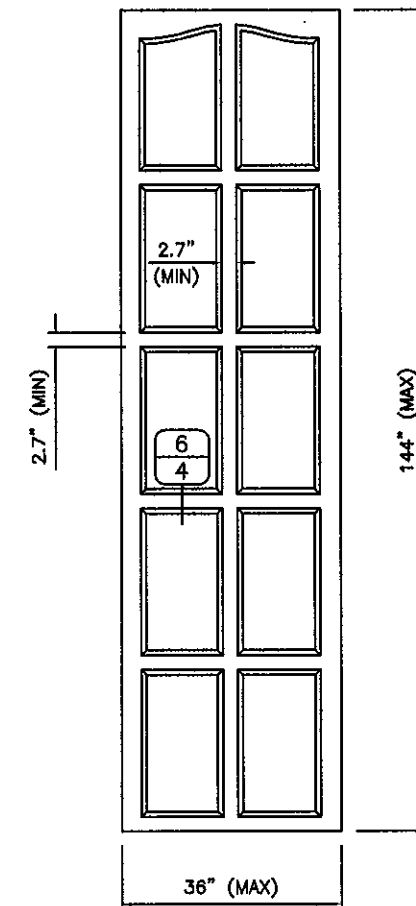
SHEET NO.
1 OF 7



DOUBLE HALF ROUND DOOR
(EXTERIOR VIEW)



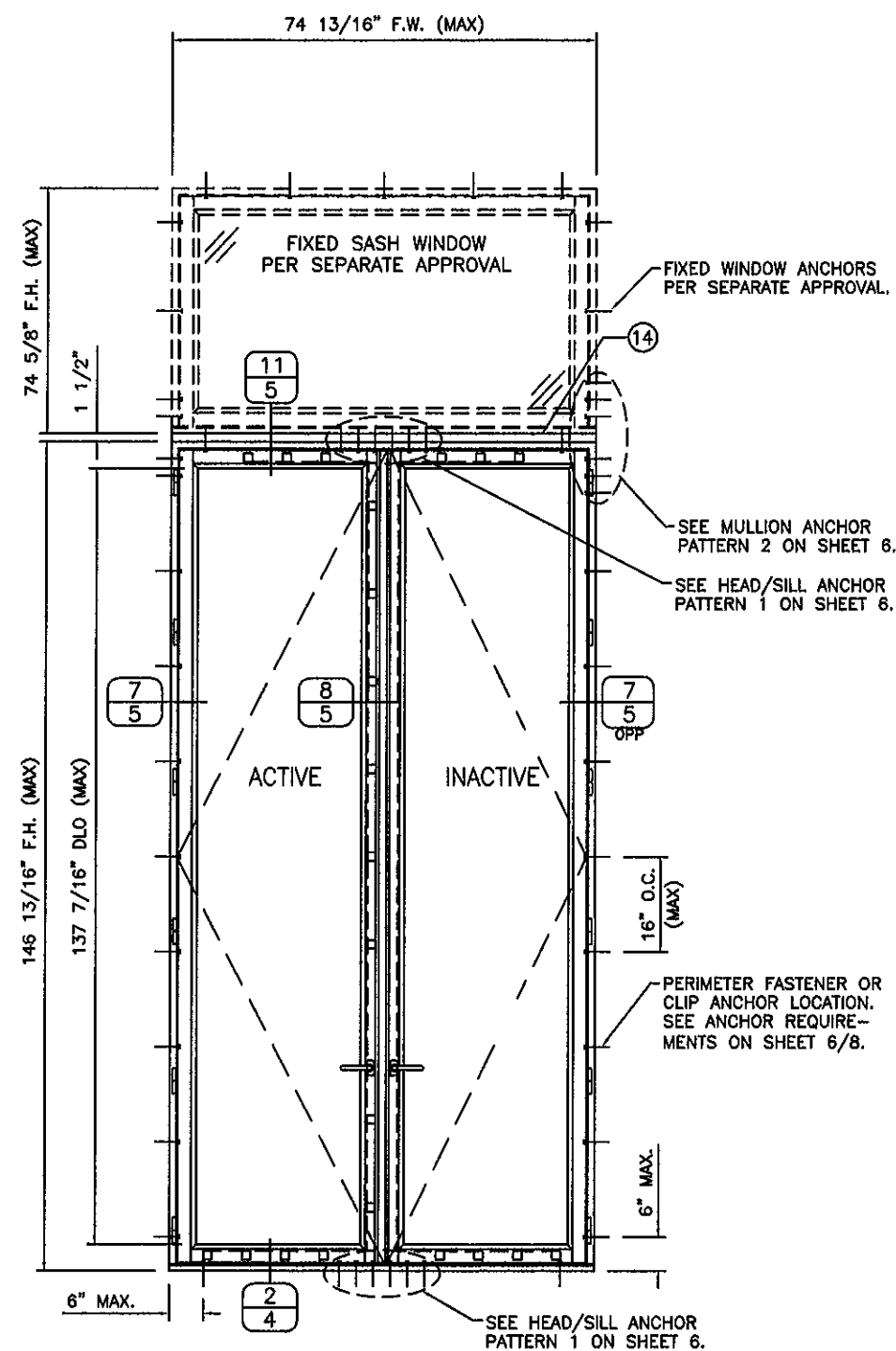
SINGLE HALF ROUND DOOR
(EXTERIOR VIEW)



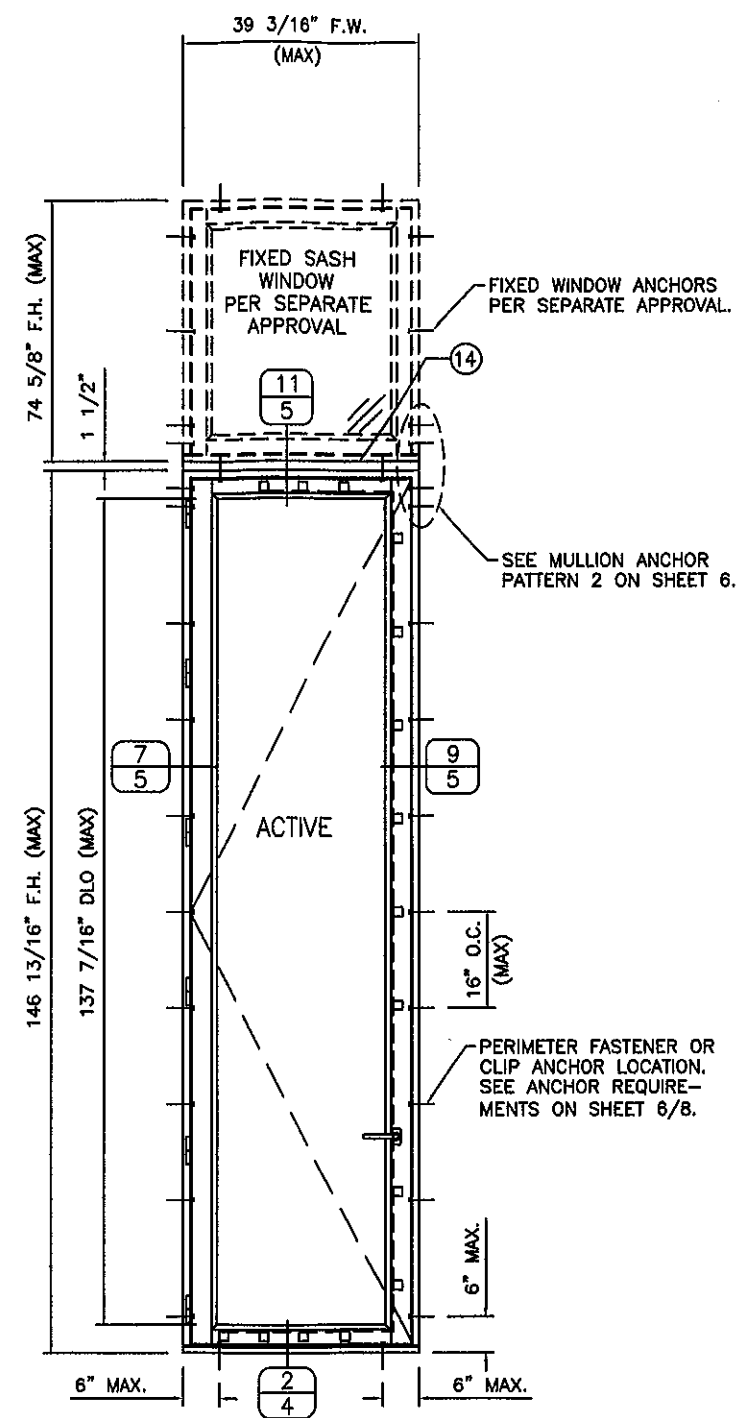
PANEL WITH
STANDARD MID-RAILS
(EXTERIOR VIEW)

1. TOP & MID RAILS MAY BE OF ANY CONFIGURATION PROVIDING THE SMALLEST CROSS SECTION OF RAILS IS EQUAL TO OR LARGER THAN THAT DETAILED IN DRAWINGS.
2. MULTIPLE MID RAIL (BOTH HORIZONTAL & VERTICAL) MAY BE USED WITH THESE PANELS.
3. PANEL ONLY IS SHOWN. FOR INSTALLATION INTO FRAME, SEE OTHER ELEVATIONS.

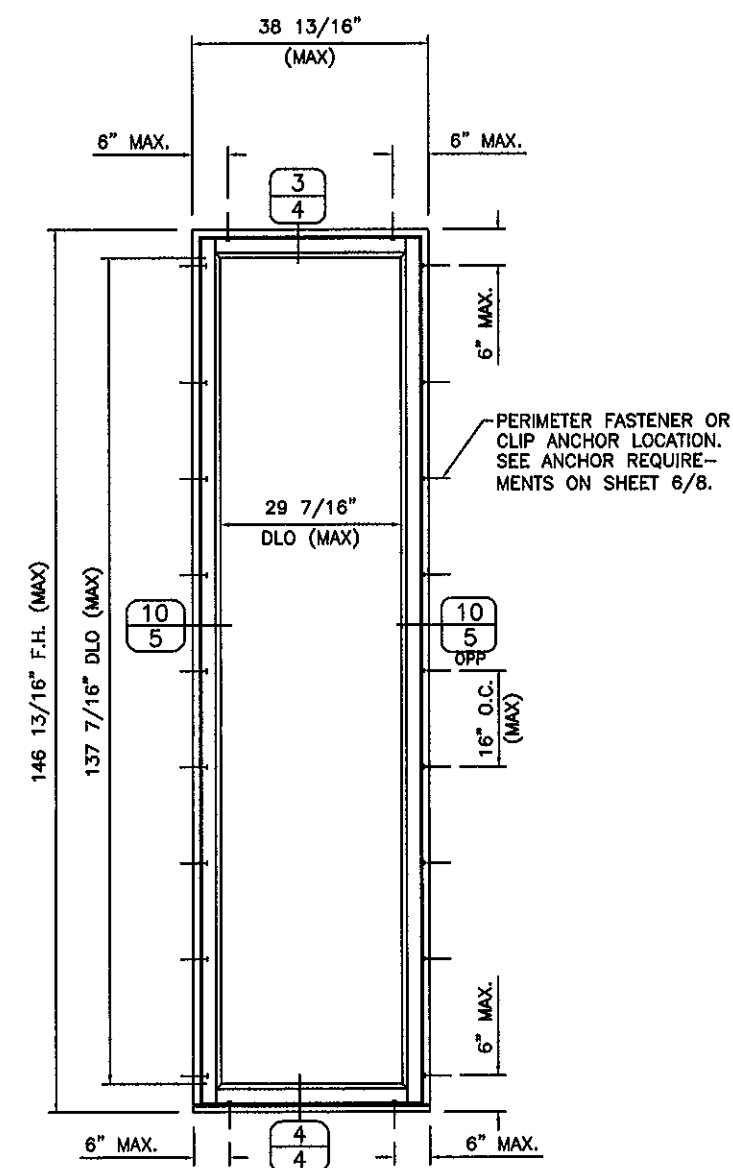
PRODUCT REVISED
As complying with the Florida
Building Code
Amendment No. 12-0110-01
Expiration Date 12/1/11
By Ishag I. Chaudhry
Product Control



DOUBLE DOOR WITH TRANSOM
(EXTERIOR VIEW)



SINGLE DOOR WITH TRANSOM
(EXTERIOR VIEW)



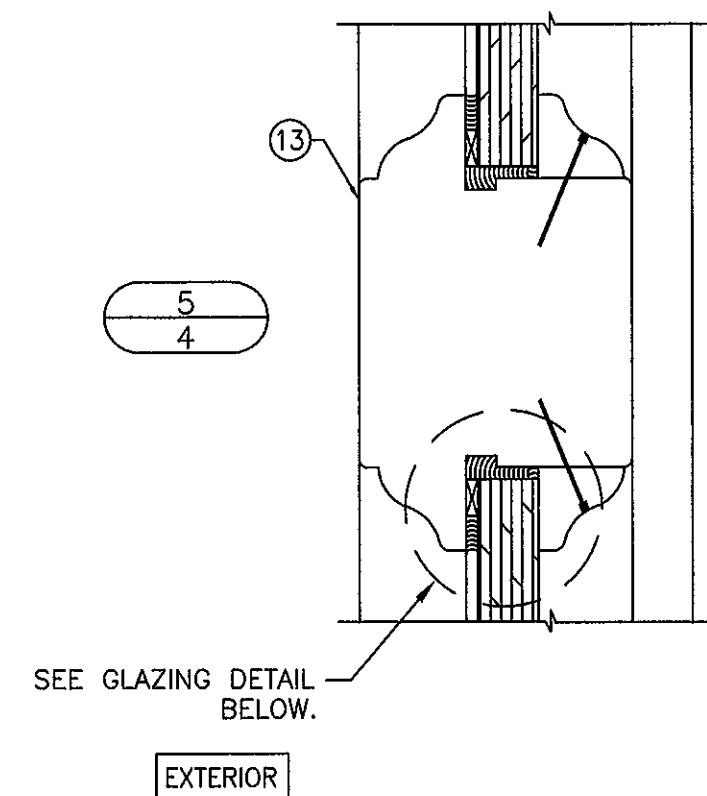
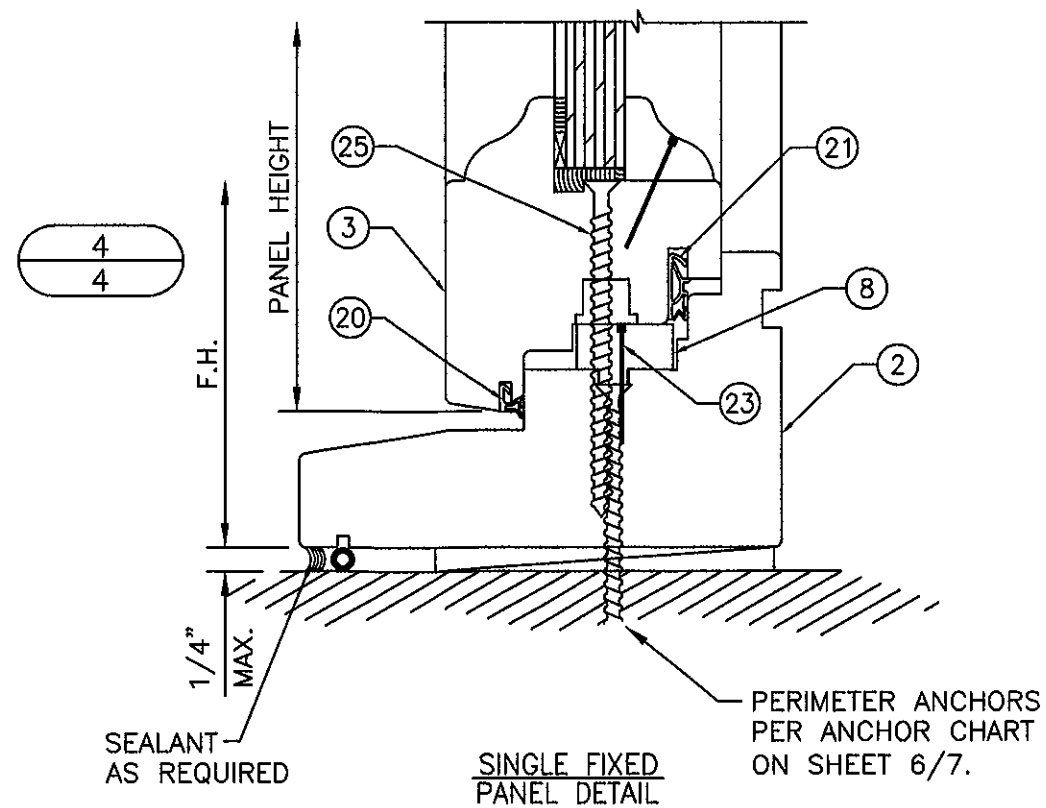
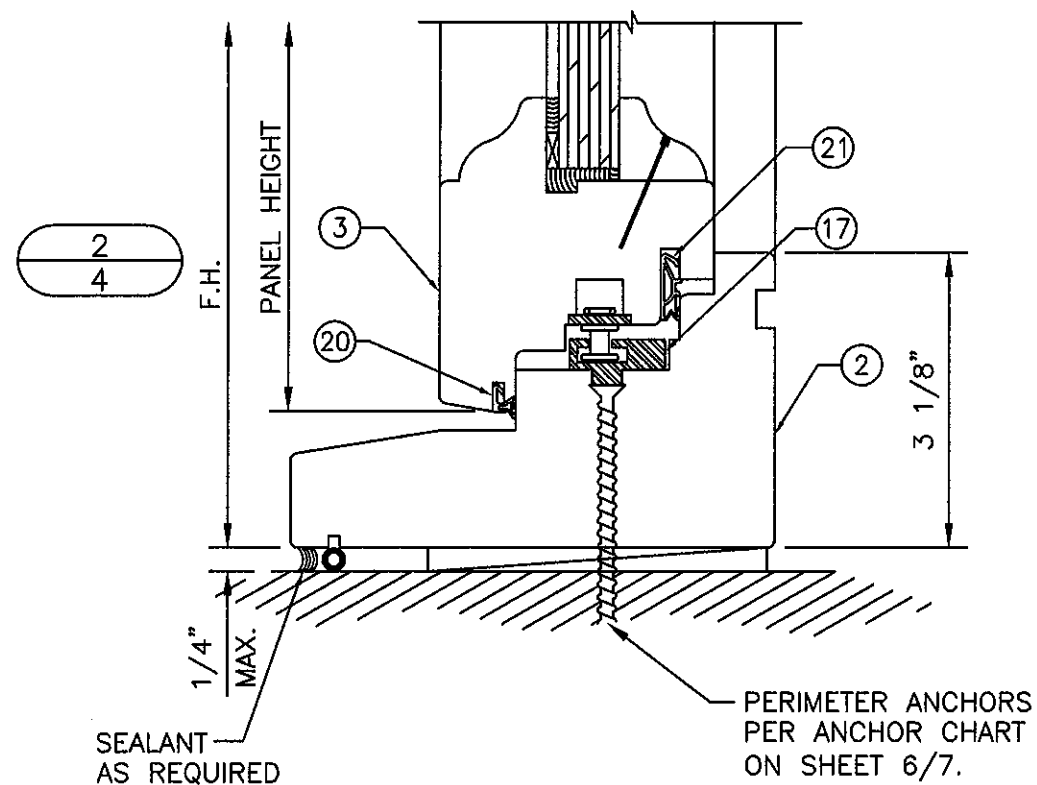
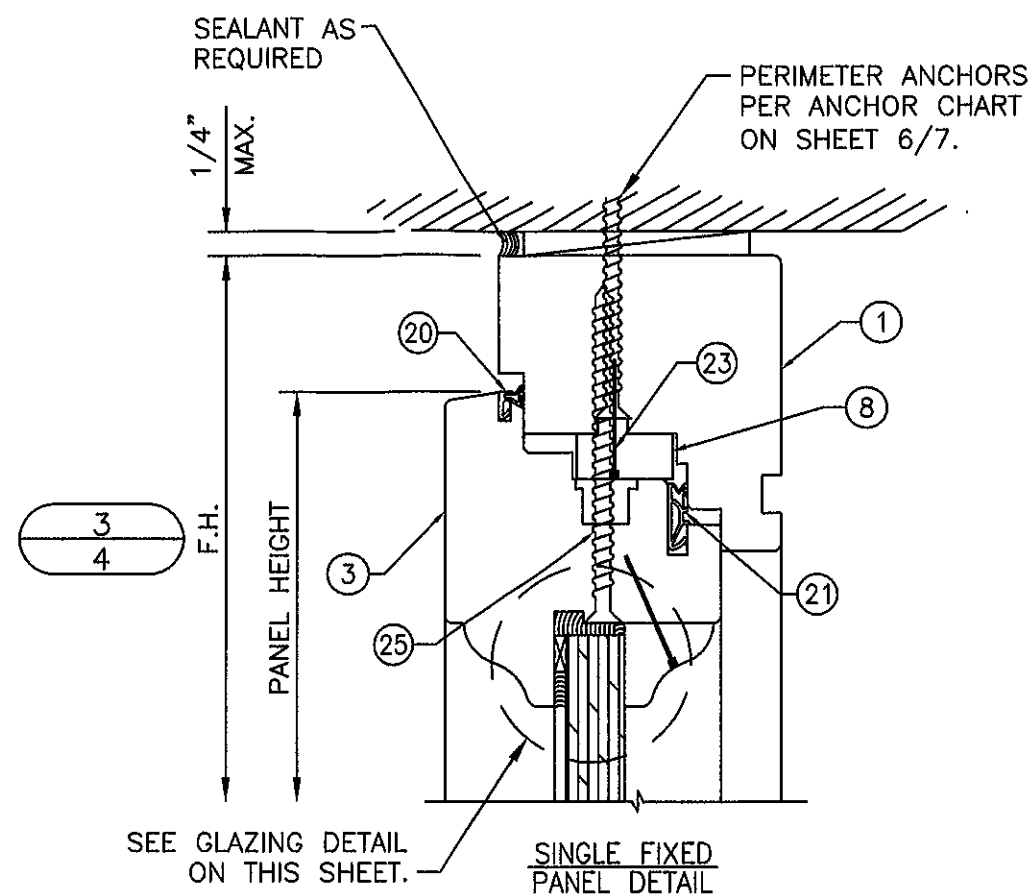
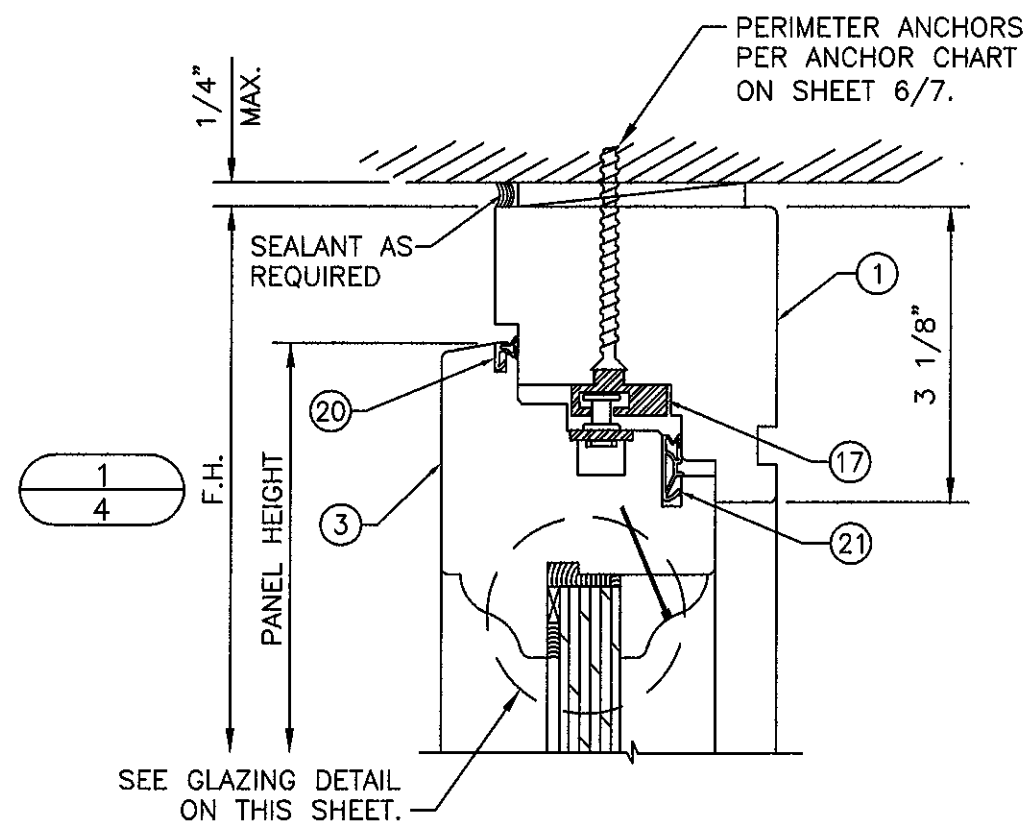
OPTIONAL SINGLE FIXED PANEL
(EXTERIOR VIEW)

LIMITATIONS:

1. LOWER DESIGN PRESSURE (DP) FROM TRANSOM OR DOORS SHALL CONTROL FOR ENTIRE ASSEMBLY.
2. (4) OR (6) ANCHORS TO BE PROVIDED AT HORIZONTAL MULLION END. (SEE MULLION PATTERN 2 ON SHEET 6)

PRODUCT REVISED
to comply with the Florida
Building Code
Amendment No. 12-0110-01
Expiration Date 01/11/17
Scott Wolters
Product Control

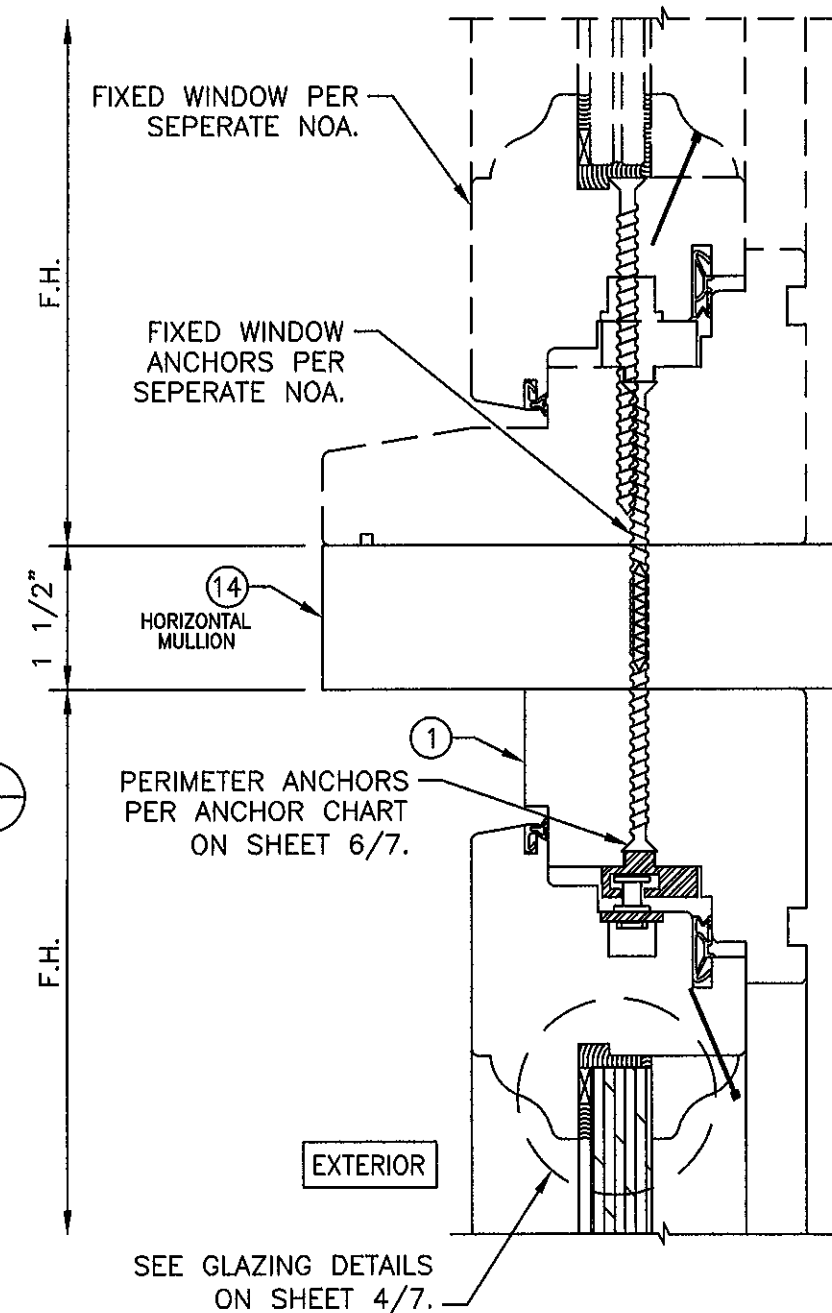
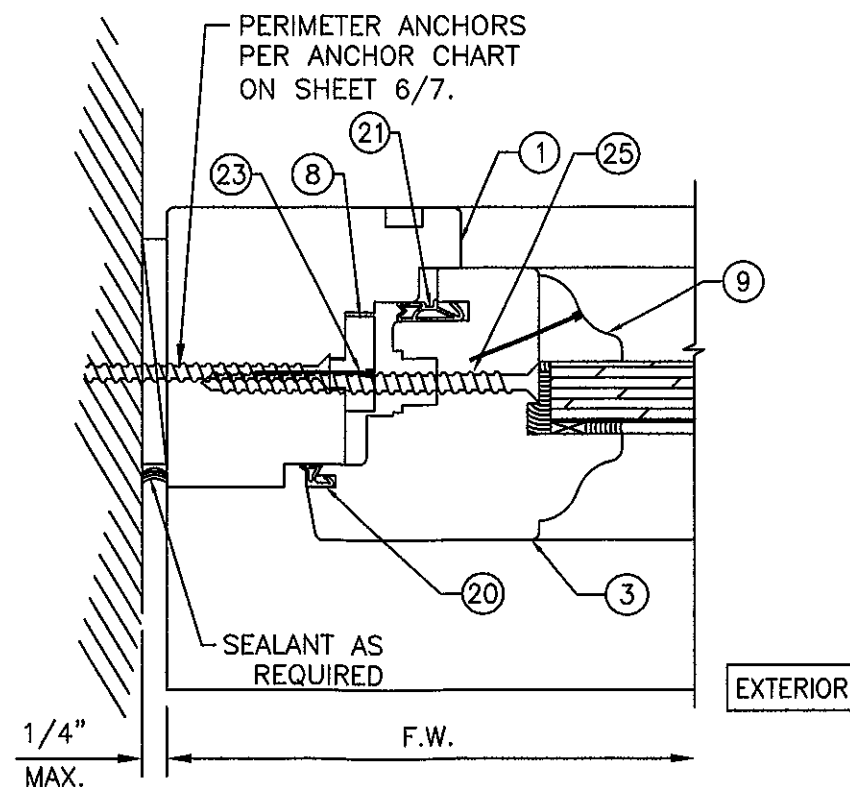
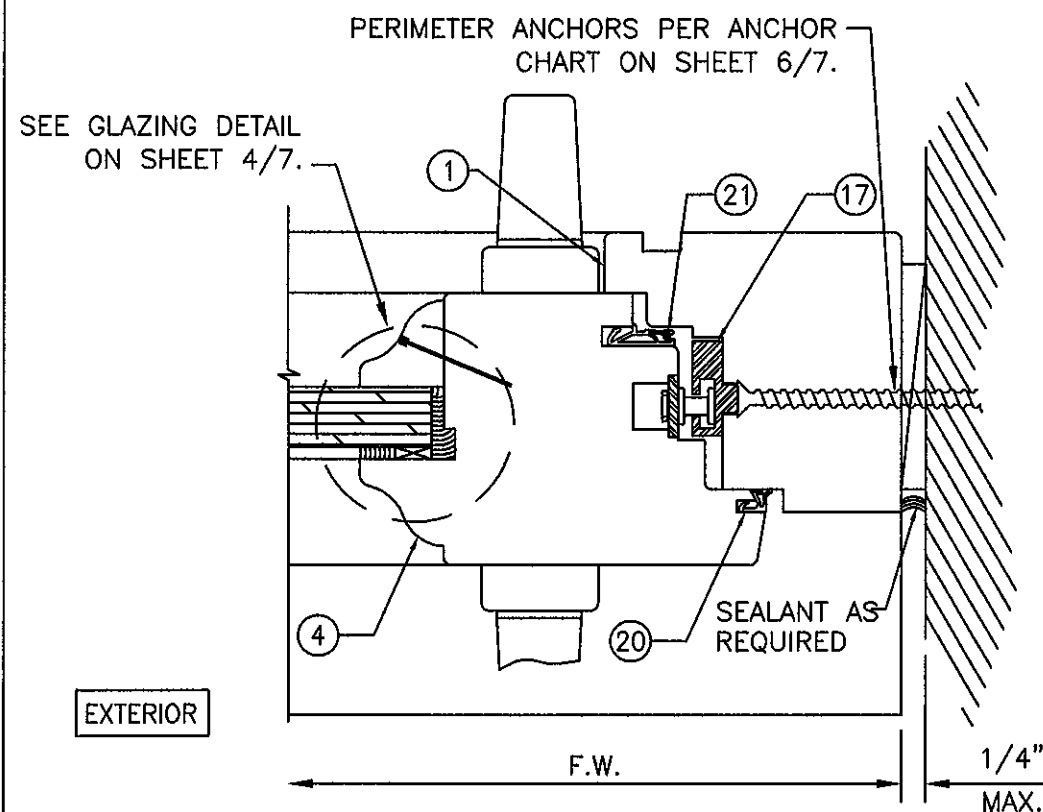
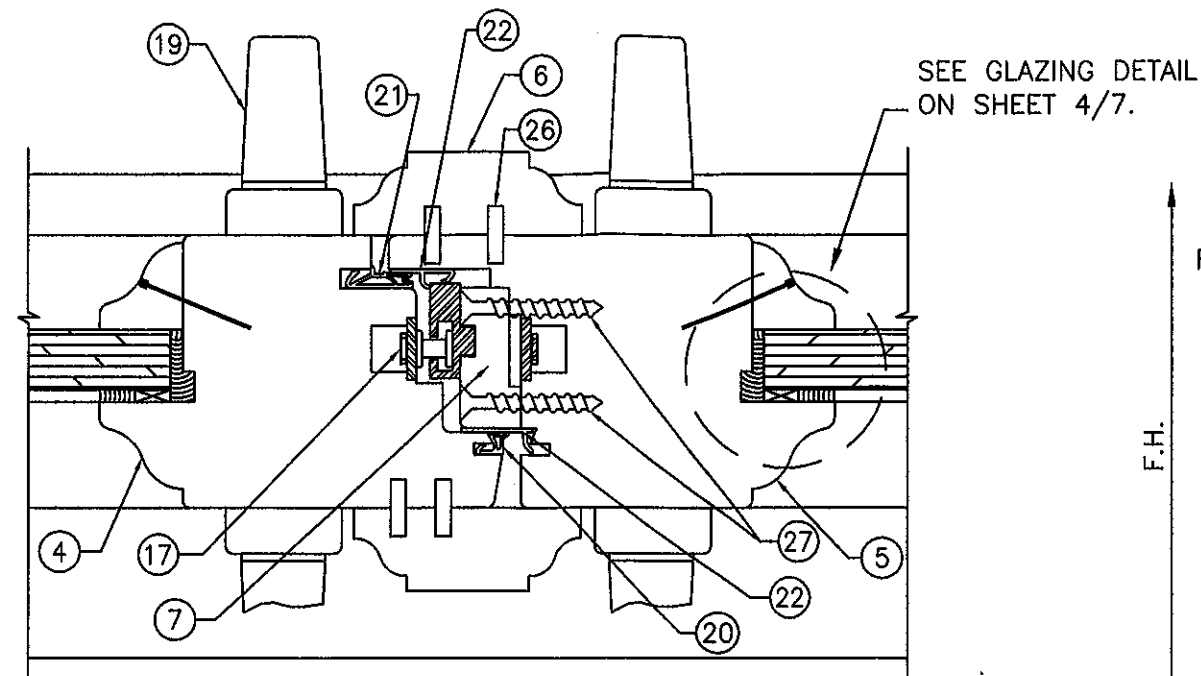
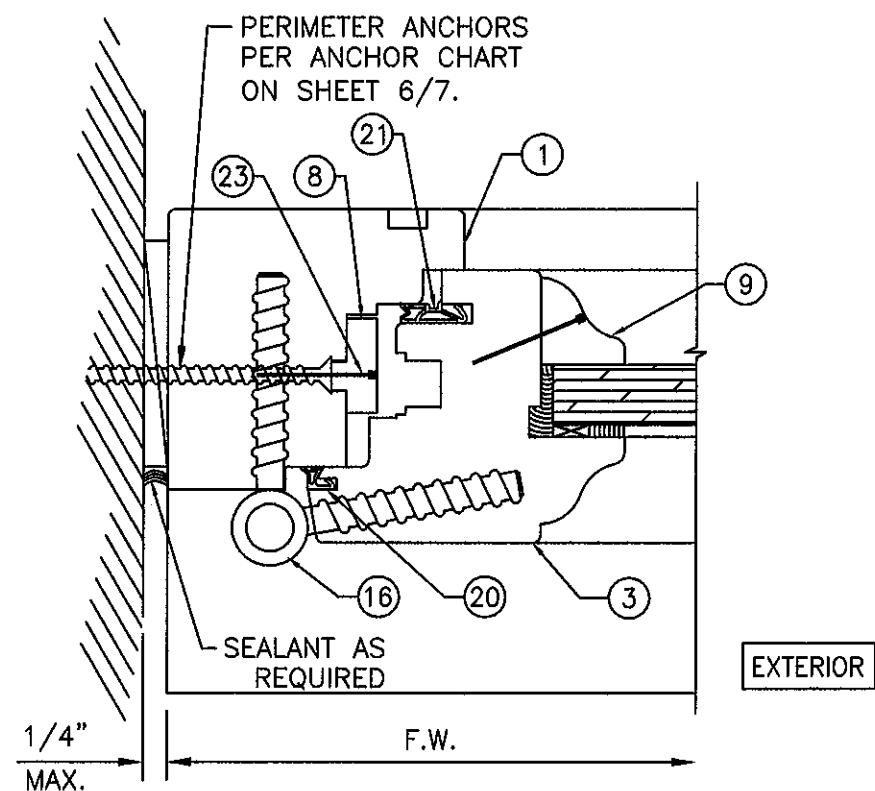
DATE:	4/20/12
REVISION DESCRIPTION	
NO.	
12 FT WOOD SLIM EUROPEAN IMPACT OUTSWING OPAQUE PANEL FRENCH DOORS	
LUXBAUM, LLC	
WINDOWS + DOORS	
2400 CENTREPARK WEST DR, SUITE 150	
Ph: (561) 684-1500	
APR 23 2012	
SCOTT WOLTERS FL PER 62534	
WOLTERS ENGINEERING (CO.# 27194) 1271 GRANT STREET HOLLYWOOD, FL 33019	
DRAWING NO.	12SLIMWP
SHEET NO.	3 OF 7



GLAZING DETAIL

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0110-01
Expiration Date 01/11/17
By: /s/ Shaq L. Chan
Shaq L. Chan, Professional Engineer

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PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 12-0110-01
Expiration Date 01/11/17
By Ishag J. Chaudhry
Signed Date Product Control

WOOD (2x4 MIN. TYPICALLY) (2x6 MIN. WITH CLIP)	-	#12 FH WOOD OR SHEET METAL SCREW WITH 1 1/4" MIN. EMBEDMENT AND 7/8" EDGE DISTANCE.
CONCRETE (3000 PSI MIN)	-	1/4" DIA. FH ITW TAPCON OR ELCO ULTRACON WITH 1 3/4" MIN. EMBEDMENT AND 2 1/2" MIN. EDGE DISTANCE.
CMU (ASTM C90)	-	1/4" DIA. FH ITW TAPCON OR ELCO ULTRACON WITH 1 1/4" MIN. EMBEDMENT AND 2 1/2" MIN. EDGE DISTANCE.
STEEL (16 Ga. 33 KSI MIN)	-	#12 FH F-TYPE (GR. 5) THREAD FORMING SCREW WITH FULL EMBEDMENT AND 1/2" MIN. EDGE DISTANCE.
ALUMINUM (1/8" MIN, 6063-T5)	-	#12 FH F-TYPE (GR.5) THREAD FORMING SCREW WITH FULL EMBEDMENT AND 1/2" MIN. EDGE DISTANCE.

PERIMETER ANCHORS PER ANCHOR CHART ON THIS SHEET.
(2) PER CLIP.

1/4" MAX.

O.C. SPACING
1 1/2" MIN. (CONCRETE)
1 1/2" MIN. (CMU)
1" MIN. (WOOD)
3/4" MIN. (STEEL/ALUM.)

SEALANT AS REQUIRED

EXTERIOR

#8 x 1 1/2" FHSM SCREW. (3 PER CLIP)

12

1 2

WHEN CLIP ANCHORS ARE USED AT TRANSOM MULLIONS, (6) BRACKETS ARE REQUIRED AT EACH END FOR ALL FASTENER TYPES.

The diagrams illustrate six different buck configurations for transferring loads from a slab to a supporting structure. Each diagram includes a cross-section of the buck, the supporting structure, and the slab. Dimensions are provided for minimum clearances and embedment depths.

- WOOD:** The buck is embedded into a wooden support. The minimum clearance above the buck is 7/8". A note points to the buck with the text "SEE BUCK NOTE."
- STEEL OR ALUMINUM:** The buck is embedded into a steel or aluminum support. The minimum clearance above the buck is 1/2".
- CONCRETE OR CMU:** The buck is embedded into a concrete or CMU support. The minimum clearance above the buck is 2 1/2". The embedment depth into the concrete is 1 1/4" MIN. (CMU) and 1 3/4" MIN. (CONCRETE).
- STEEL OR ALUMINUM WITH 1x WOOD BUCK:** The buck is embedded into a steel or aluminum support. The minimum clearance above the buck is 1/2". A note points to the buck with the text "SEE BUCK NOTE."
- CONCRETE OR CMU WITH 1x WOOD BUCK:** The buck is embedded into a concrete or CMU support. The minimum clearance above the buck is 2 1/2". The embedment depth into the concrete is 1 1/4" MIN. (CMU) and 1 3/4" MIN. (CONCRETE).

BUCKS MUST BE ATTACHED TO SUBSTRATE, TRANSFER LOADS, AND BRACING SYSTEM TO STRUCTURE.

Technical drawing of a window and door assembly. The drawing shows a cross-section of the assembly with the following components and dimensions:

- FIXED WINDOW**: The upper section of the assembly.
- TRANSOM MULLION**: The horizontal member separating the window from the door.
- DOOR FRAME**: The lower section of the assembly.
- Dimensions**:
 - Three vertical dimensions of **3"** are indicated on the right side, corresponding to the height of the window frame, the transom mullion, and the door frame.
 - A vertical dimension of **7 1/2"** is indicated on the right side, spanning the height of the transom mullion and the door frame.

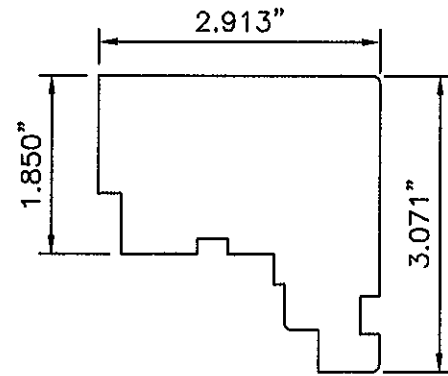
Technical drawing of a window and door assembly. The drawing shows a cross-section of a wall with a window above a door. The window consists of a fixed window pane and a transom mullion. The door frame is shown below the transom mullion. The drawing includes dimensions for the window and door frame.

Labels and dimensions:

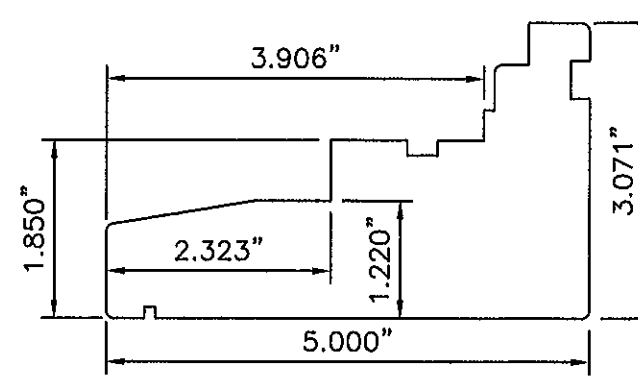
- FIXED WINDOW
- TRANSOM MULLION
- DOOR FRAME
- 7 1/2"
- 2"
- 2"

HORIZONTAL MULLION
ANCHOR PATTERN 2
(CONCRETE AND METAL)

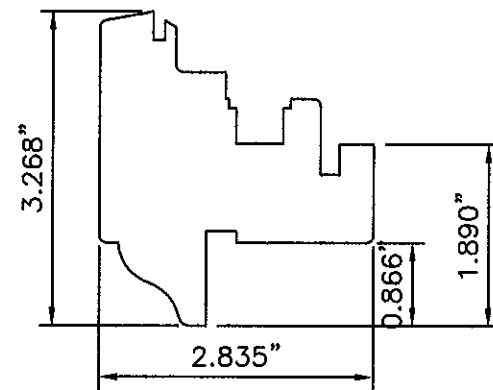
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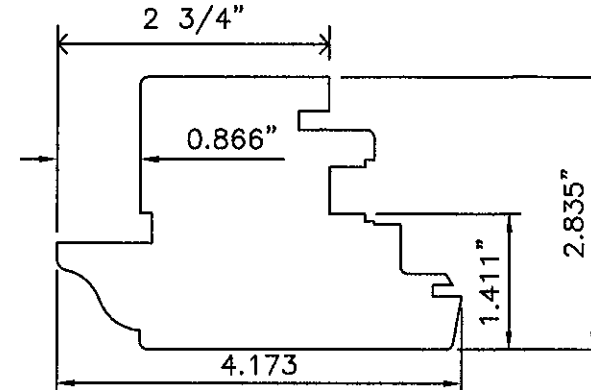
① HEAD & SIDE JAMB



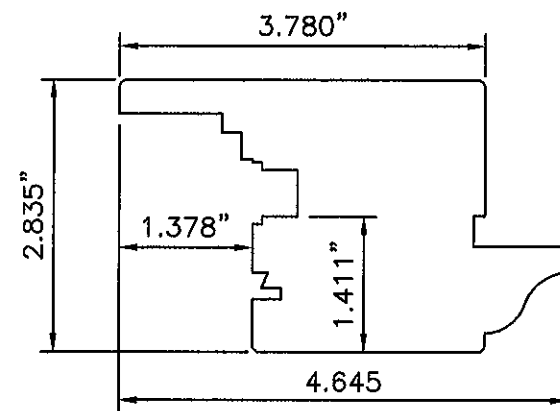
② SILL JAMB



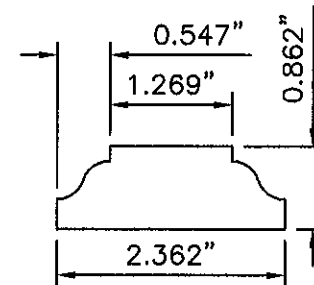
③ RAIL & STILE



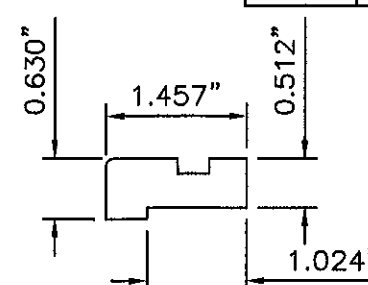
④ ACTIVE MEETING STILE



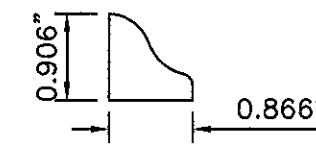
⑤ INACTIVE MEETING STILE



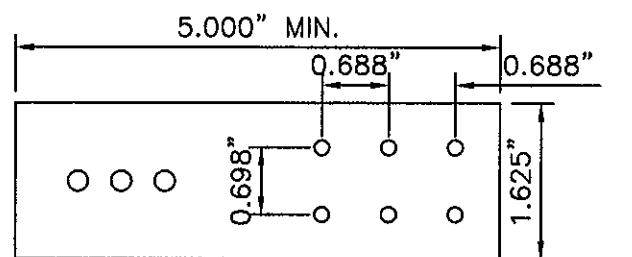
⑥ ASTRAGAL CAP



⑦ ASTRAGAL

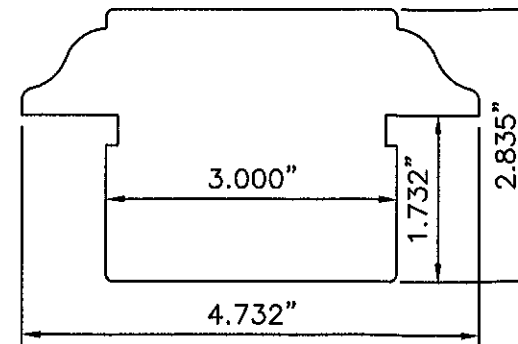


⑨ GLASS/PANEL STOP

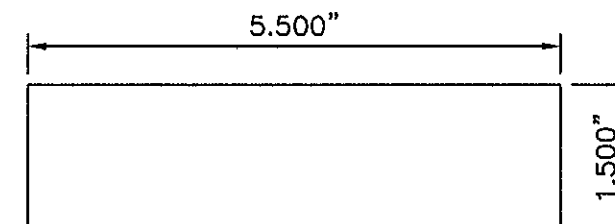


⑫ MOUNTING CLIP

THICKNESS = 0.045"



⑬ MID RAIL



⑭ HORIZONTAL MULLION
(L = TRANSOM F.W.)

ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	7478	HEAD & SIDE JAMB	MERBAU
2	78127	SILL JAMB	MERBAU
3	7283	RAIL & STILE	MERBAU
4	72106	ACTIVE MEETING STILE	MERBAU
5	72118	INACTIVE MEETING STILE	MERBAU
6	2260	ASTRAGAL CAP	MERBAU
7	1637	ASTRAGAL	MERBAU
8	-	SPACER	MERBAU
9	2223	GLASS/PANEL STOP	MERBAU
12	-	MOUNTING CLIP	0.045" 316 STAINLESS STEEL (50 ksi)
13	72105	MID RAIL	MERBAU
14	-	MULLION (5 1/2" X 1 1/2")	MERBAU
HARDWARE			
15	-	HINGE	G-U HARDWARE 5020-SM
16	-	HINGE	BAKA C2-20
17	-	MULTI-POINT LOCK SET	SIEGENIA NO. 3/45M5
19	-	HANDLE	AS REQUIRED TO OPERATE LOCKS
SEALS AND SEALANTS			
20	-	COMPRESSION SEAL	DEVENTER SV33
21	-	COMPRESSION SEAL	DEVENTER SV12
22	-	COMPRESSION SEAL	DEVENTER S6544
MISCELLANEOUS FASTENERS			
23	-	23 GAGE BRAD NAIL	4" FROM ENDS & 14" O.C.
24	-	23 GAGE BRAD NAIL	2" FROM CORNERS & 4" O.C.
25	-	NO. 12 X 3 1/2" SMS	4" FROM CORNERS & 12" O.C.
26	-	NO. 0 BISCUIT	4" FROM ENDS & 14" O.C.
27	-	NO. 8 X 1 1/2" SMS	4" FROM ENDS & 14" O.C. (2 ROWS)
28	-	1/16" X 1/4" NEOPRENE SHIM	1" FROM CORNERS & 8" O.C.

MERBAU WOOD: S.G. = 0.68
E = 2.6×10^6 psi
Sy = 21,300 psi
Fb = 12,780 psi

PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 12-0110.01
Expiration Date JAN 11, 2017
Shag L. Chandy
Product Control

DATE: 4/20/12

12 FT WOOD SLIM EUROPEAN IMPACT OUTSWING FRENCH DOORS

LUXBAUM, LLC

WINDOWS + DOORS

2400 CENTREPARK WEST DR, SUITE 150
PH: (561) 684-1500

SCOTT WOLTERS
FL PE# 62554

WOLTERS ENGINEERING
(CO.# 27194)
1271 GRANT STREET
HOLLYWOOD, FL 33019

APR 23 2012

DRAWING NO. 12SLIMWP

SHEET NO. 7 OF 7